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# BN-HH-G02 User Manual

## Table of Content

1. Device Description .....	1
2. Parameters.....	2
3. Device installation.....	3
3.1. Unpack .....	3
3.2. Rear Cover Open or Close .....	3
3.3. Install a SIM Card .....	3
3.4. Install a Memory SD Card .....	4
3.5. Install a Battery .....	4
3.6. Travel Charger .....	5
3.7. Charging Notice.....	6
4. BN_DEMO Operation Guide.....	6
4.1. BN_DEMO_HF (13.56MHz) .....	6
4.2. BN_DEMO_UHF (900MHz) .....	6
4.3. BN_DEMO_MW (2.4GHz) .....	8
5. RFID Notice .....	10

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## 1. Device Description



## 2. Parameters

<b>Common parameters</b>	CPU	1.2GHz dual-core
	Operating system	Android 4.0
	Inner module	RFID Reader, Barcode Reader
	Dimension	137*68*20 ( 28 ) mm
	Weight	245g (with battery)
	Wireless access modes	WiFi 802.11b/g/n, Bluetooth GSM/GPRS
	Camera	5M pixel , automatic focusing
	GPS positioning	Yes
<b>Display screen</b>	Type	TFT capacitance multi touch screen
	Dimension	800*480 pixel , 4.3 inch screen
<b>Volume</b>	Ring	Various rings and vibration
	Inner speaker	Yes
	Inner microphone	Yes
<b>Memory</b>	Memory expansion	Micro SD , maximum 32G
	Internal memory	RAM 512MB
<b>RFID</b>	<input type="checkbox"/> HF	ISO 14443 , ISO 15693
	<input checked="" type="checkbox"/> UHF	ISO 18000-6C , EPC Gen2
	<input type="checkbox"/> 2.4GHz	ISO 18000-4
<b>Barcode reader</b>	Reader type	CCD Image Reader
	Barcode type	One dimensional barcode and all typological two dimensional barcode e.g. : PDF417 ,Datamatrix ,Maxicode ,Code 16k , Code 49 , QR code , Code one etc.
<b>Battery</b>	Type	3.7V , Li-Ion 1800 ( 2800 ) mAh battery
	Stand-by time*	Maximum 48 hours
	Work time**	Maximum 8 hours
<b>SDK</b>	Operating system	Android 4.0
	Language	Java ( JDK 16 )
	Development Environment	Java SE Development Kit Eclipse , Android SDK r18 ADT Plugin for Eclipse

\*Standby condition: screen off, WiFi standby, barcode and RFID off

\*\*Operation condition: screen on, WiFi on, barcode and RFID on

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## 3. Device installation

### 3.1. Unpack

Check your product box for the following items:

- handheld device
- Battery (two)
- Travel charger
- Data cable
- User manual
- Product quality card

### 3.2. Rear Cover Open or Close



- ① Poking at the back cover along the direction of the arrow



- ② Then directly remove the back cover

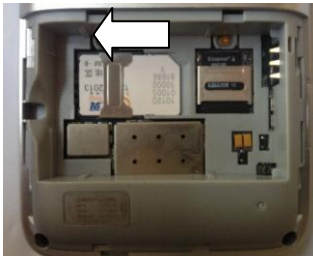
### 3.3. Install a SIM Card



- ① Insert the SIM card into the slot according

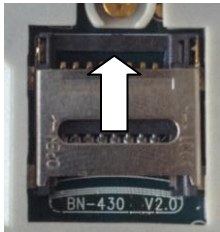
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to the picture



- ② Push the SIM card along the direction of the arrow.

### 3.4. Install a Memory SD Card



- ① Push the cover along the direction of the arrow.



- ② Insert the memory card into the slot according to the picture.



- ③ Lock the cover along the direction of the arrow.

### 3.5. Install a Battery



- ① Embed the battery along the direction of the arrow.



- ② Press the battery.



- ③ Close the cover and clamp along the direction of the arrow.

### 3.6. Travel Charger



- ① Open the USB cover along the direction of the arrow.



- ② Make the USB cover to the correct position as shown, and connect the data cable.

### 3.7. Charging Notice

Please charge the battery full before the first-time use.

\*\*\*Only use the provided charger for battery charging purpose!\*\*\*

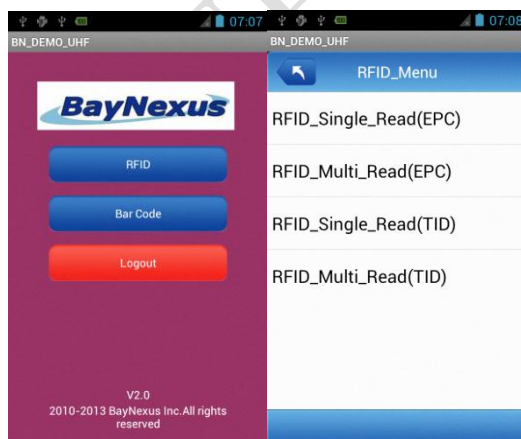
## 4. BN\_DEMO Operation Guide

### 4.1. BN\_DEMO\_HF (13.56MHz)

Reserved.

### 4.2. BN\_DEMO\_UHF (900MHz)

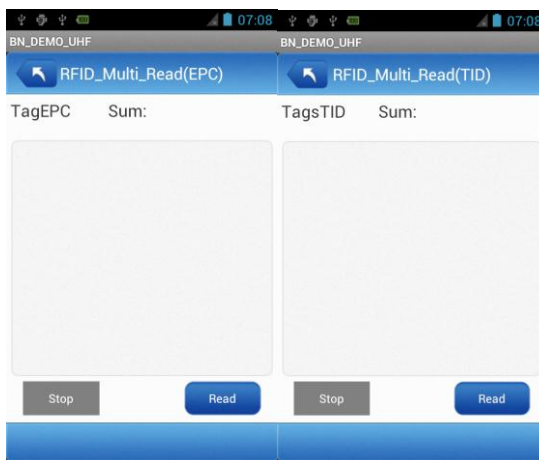
**Graph 1:** Menu Selection



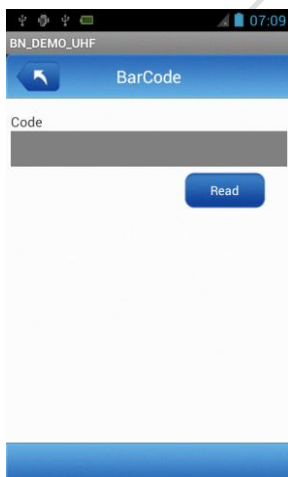
**Graph 2:** Single RFID Read Screen



**Graph 3: Multiple RFID Read Screen**



**Graph 4: Barcode Scanning Screen**



To enter BN\_DEMO\_UHF application, locate the BN\_DEMO\_UHF icon on the BN-HH-G02's Android Home Screen or Application Screen, then single-click on the icon. User will be presented with the interface shown in [Graph 1]. There are three buttons for user to choose which mode to enter.

User enters single RFID read mode by single-clicking the "RFID\_Single\_Read(EPC)" or "RFID\_Single\_Read(TID)" button. The single



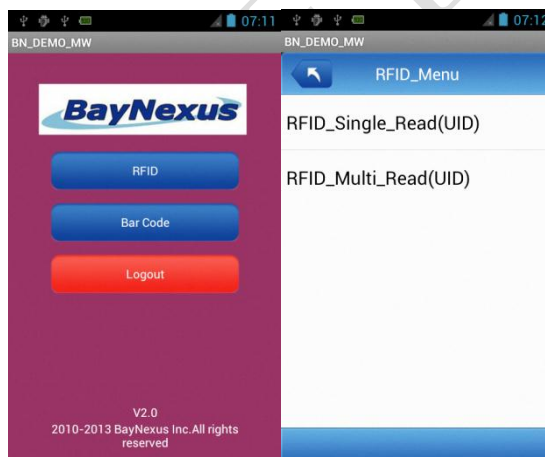
RFID read mode interface is shown in [Graph 2]. When in this mode, user can single-click “Read” button or press the physical ‘scan’ button on the right side of the BN-HH-G02 to start the single RFID read operation. The single RFID read operation ends with either a successful read of a single RFID or a time-out event.

User enters multiple RFID read mode by single-clicking “RFID\_Multi\_Read(EPC)” or “RFID\_Multi\_Read(TID)” button in [Graph 1]. The multiple RFID read mode interface is shown in [Graph 3]. When in this mode, user can single-click the “Read” button or press the physical “scan” button to start the multiple RFID read operation. User stops the multiple RFID read operation by single-clicking the “Stop” button. **Please make sure to stop the “RFID\_Multi\_Read” function when not using this function; otherwise, the battery power will drain fast!**

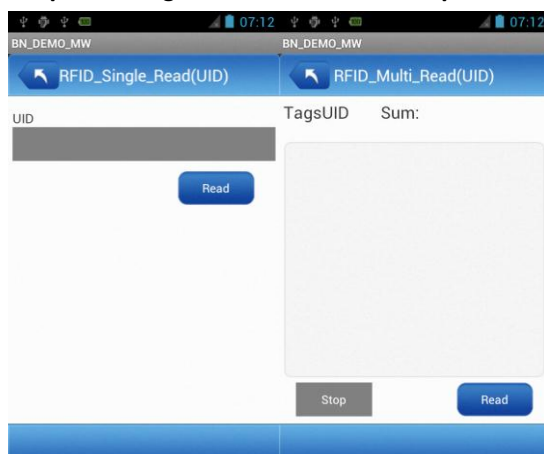
User enters bar code scanning mode by single-clicking the “BarCode” button in [Graph 1]. The barcode scanning mode interface is shown in [Graph 4]. User can single-click the “Read” button or press the physical “scan” button on the left side of the BN-HH-G02 to start the barcode scanning operation. The barcode scanning operation ends with a successful read of a barcode or a time-out event.

### 4.3. BN\_DEMO\_MW (2.4GHz)

**Graph 1:** Menu Selection



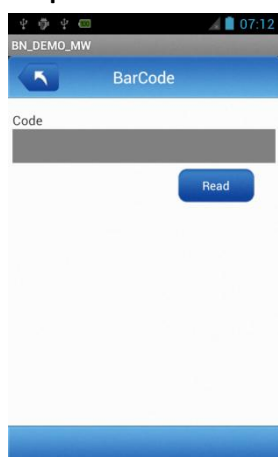
**Graph 2: Single RFID Read Screen**



**Graph 3: Multiple RFID Read Screen**



**Graph 4: Barcode Scanning Screen**



To enter BN\_DEMO\_MW application, locate the BN\_DEMO\_MW icon on the BN-HH-G02's Android Home Screen or Application Screen, then single-click on the icon. User will be presented with the interface shown in [Graph 1]. There are three buttons for user to choose which mode to enter.

User enters single RFID read mode by single-clicking the "RFID\_Single\_Read(UID)" button. The single RFID read mode interface is shown in [Graph 2]. When in this mode, user can single-click "Read" button or press the physical 'scan' button on the right side of the BN-HH-G02 to start the single RFID read operation. The single RFID read operation ends with either a successful read of a single RFID or a time-out event.

User enters multiple RFID read mode by single-clicking "RFID\_Multi\_Read(UID)" button in [Graph 1]. The multiple RFID read mode interface is shown in [Graph 3]. When in this mode, user can single-click the "Read" button or press the physical "scan" button to start the multiple RFID read operation. User stops the multiple RFID read operation by single-clicking the "Stop" button. **Please make sure to stop the "RFID\_Multi\_Read" function**

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**when not using this function; otherwise, the battery power will drain fast!**

User enters bar code scanning mode by single-clicking the “BarCode” button in [Graph 1]. The barcode scanning mode interface is shown in [Graph 4]. User can single-click the “Read” button or press the physical “scan” button on the left side of the BN-HH-G02 to start the barcode scanning operation. The barcode scanning operation ends with a successful read of a barcode or a time-out event.

## 5. RFID Notice

When you use the RFID function, do not cover the RFID antenna area on the rear of the device. Suggest to hold both sides of the device, and to read the tag as shown below.

